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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,498	10/30/2003	Alan Michael Lyons	20-5	7695
7590 05/19/2005		EXAMINER		
Lucent Technologies Inc.			AL NAZER, LEITH A	
Docket Administrator (Room 3J-219) 101 Crawfords Corner Road Holmdel, NJ 07733-3030			ART UNIT	PAPER NUMBER
			2821	
		DATE MAILED: 05/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the proteines of 3 CPR 1.108(d), in no event, however, may a reply be timely filed If the period for reply specified above is less than thirty (20) days, a reply within the statutatory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (20) days, a reply within the statutatory minimum of thirty (30) days will be considered timely. If the period for reply is specified above is less than thirty (20) days, a reply within the statutacy minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (20) days, a reply within the statutacy minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (20) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (20) days and will depend the service of the communication. If the period for reply specified above is less than thirty (20) days and will depend the service of the communication. If the period for reply specified above is less than thirty (20) days and will depend the service of the communication. If the period for reply specified to communication. If the period for reply specified to communication. If the period for reply specified to the communication. If the period for reply specified to the communication. If the period for reply specified to the days are specified to be period for reply days and will depend the communication. If the period for reply specified to the period for reply days and the communication. If the period for reply specified the period for reply days and the communication. If the period for reply specified the period for reply days and the period for reply days and the period for reply days and the period for rep		Application No.	Applicant(s)					
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- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eleminos for time may be available used the provision of 37 CFR 1.73(a). In an event, however, may a reply be timely filled Eleminos for time may be available used the be provised used to the provision of 37 CFR 1.73(a). In an event, however, may a reply be timely filled Eleminos for the provision of the above claim(s)	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - and SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - and STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - and STATUTORY PERIOD FOR STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - and STATUTORY PERIOD FOR THIS COMMUNICATION and STATUTORY PERIOD FOR THI								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be suitable under the provisions of 3 CFR 1.13(s). In on event, however, may a reply be timely filed after SIX (5) MODITIS from the realing date of this communication. **Extension of time may be swillable under the provisions of 3 CFR 1.13(s). In on event, however, may a reply be timely filed after SIX (5) MODITIS from the realing date of this communication. **Fallure to reply while the sector extended period for reply will, by tables the statisticy princive day pay and will expect (5) (MODITIS from the realing date of this communication. **Fallure to reply while the sector extended period for reply will, by tables, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office Idea of the remains after the realing date of this communication. **Fallure to reply while the sector extended period for reply will, by tables, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the time the mailly date of this communication. **Fallure to reply while the sector extended period for reply will, by tables, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the date of the communication. **Fallure to reply while the sector extended period for reply will, by tables, cause the application is one-final. **Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** **Application of Claims** **Application of Claims** **Application is objected to by the Examiner. **Claim(s) is/are objected. **Claim(s) is/are objected to by the Examiner. **Disposition of provided period provided to be developed for the drawing (s) be held in abeyance. See 37 CFR 1.25(a). **The drawing(s) filed on 30 June 2004 Is/are: a) accepted or b)	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
1)⊠ Responsive to communication(s) filed on 25 April 2005. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)ⓒ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)⑫ Claim(s) 1-5 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on 30 June 2004 is/are: a)□ accepted or b)☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or dectaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rula 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 9)□ Information Disclosure Statement(s) (PTO-1449 or PTO/SB08) 4)□ Information Disclosure Statement(s) (PTO-1449 or PTO/SB08)	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statum period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 							
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DETAILED ACTION

Drawings

- 1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Reference numbers 101 and 102 are discussed in the specification but are not shown in figure 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and

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informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Reference number 201 shown in figure 2 and reference number 501 shown in figure 5 are not addressed in the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 3, and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,856,297 to Durham et al.

With respect to claim 1, Durham teaches an apparatus comprising an inflatable body (306) having an inner surface and an outer surface (figure 10); a plurality of support structures (312) connecting the inner surface and the outer surface (figure 10); and at least a first antenna element (40) disposed on the outer surface (figure 10).

With respect to claim 3, Durham teaches the plurality of support structures comprising a plurality of tubes (312) extending from the inner surface to the outer surface (figure 10).

With respect to claim 5, Durham teaches the at least a first antenna element being one antenna element in a plurality of antenna elements (figure 4; 40 in figure 10) comprising a phased array antenna.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,856,297 to Durham et al. in view of U.S. Patent No. 4,510,500 to Brune.

Claim 2 requires the inner surface comprise the surface of a dirigible. It is well-known in the art that the inner surface (or ground plane) of an antenna can comprise the surface of an airplane or dirigible, as is evidenced by Brune (column 6, lines 18-20). Therefore, at the time of the invention it would have been obvious to one having ordinary skill in the art to take the system of Durham and specifically state that the inner surface be mounted to a dirigible. The motivation for doing so would have been to provide a suitable grounding structure.

9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,856,297 to Durham et al. in view of U.S. Patent No. 6,573,876 to Maroko et al.

Claim 4 requires at least one of the plurality of tubes comprises a coaxial transmission line adapted to transmit signals to and from the at least a first antenna

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element. Such a configuration is well known in the art, as is evidenced by Maroko (column 6, lines 30-40). Therefore, at the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize a coaxial transmission feed line in the system of Durham. The motivation for doing so would have been to provide an efficient and compact feed structure capable of fitting into one of the structural support tubes.

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Citation of Pertinent References

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patent documents further show the state of the art with respect to inflatable antenna structures:
 - a. U.S. Patent No. 6,791,510 to Watanabe et al.
 - b. U.S. Patent No. 6,650,304 to Lee et al.
 - c. U.S. Patent No. 6,512,496 to Alexeff et al.
 - d. U.S. Patent No. 5,406,294 to Silvey et al.
 - e. U.S. Patent No. 4,475,109 to Dumas et al.
 - f. U.S. Patent No. 4,353,071 to Bernstein et al.
 - g. U.S. Patent No. 3,999,183 to Brett
 - h. U.S. Patent No. 3,328,750 to Gimber et al.
 - i. U.S. Patent No. 3,312,902 to Dean et al.
 - j. U.S. Patent No. 3,095,568 to Aine et al.

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Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Supervisory Patent Examiner Technology Center 2800